BTL-4000 Ultrasound

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V100TN05/05/2004

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U L T R A S O U N D

1 A D N E X I T I S - P O S T - I N F L A M M A T O R Y C H A N G E S

Program	U-0048 adnexitis - post-inflammatory changes
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 5. treatment: 10 minutes 6. treatment: 12 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm2 3. - 4. treatment: 0.8 W/cm2 5. - 15. treatment: 1.0 W/cm2
Effect	antiphlogistic, hyperaemic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (244)

2 A D N E X I T I S - S U B A Q U A L I S

Program	U-0047 adnexitis - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm2 3. - 4. treatment: 0.6 W/cm2 5. - 15. treatment: 0.8 W/cm2
Effect	antiphlogistic, analgesic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (243)

3 A R T H R I T I S R H E U M A T O I D E S

Program	U-0001 arthritis rheumatoides
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	6 - 10
Intensity	0.8 - 1.2 W/cm2, step 0.1 W/cm2
Effect	analgesic, antiedematous
Note	Semistatic application. (199)

4 ARTHRITIS RHEUMATOIDES - SUBAQUALIS

Program	U-0002 arthritis rheumatoides - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	6 - 10
Intensity	1.0 - 2.0 W/cm2, step 0.1 W/cm2
Effect	analgesic, antiedematous, myorelaxation
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 36 °C (200)

5 ARTHROSIS CHRONICA

Program	U-0003 arthrosis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 - 8 minutes, step 0.5 minute
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.2 W/cm2
Effect	antiedematous, analgesic
Note	Apply to the edema. The patient must not feel pain during application. (201)

6 ARTHROSIS CHRONICA INACTIVA

Program	U-0004 arthrosis chronica inactiva
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	10 minutes
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.0 - 2.0 W/cm2, step 0.2 W/cm2
Effect	analgesic, antiedematous
Note	Dynamic application. Treat the whole affected joint. For deeper located joints. (202)

7 ARTHROSIS CHRONICA INACTIVA - SUPERFICIAL

Program	U-0059 arthrosis chronica inactiva - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	10 minutes
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.0 - 2.0 W/cm2 , step 0.2 W/cm2
Effect	analgesic, antiedematous
Note	Dynamic application. Treat the whole affected joint. For joints located close to the surface. (520)

8 ARTHROSIS SUBCHRONICA

Program	U-0005 arthrosis subchronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	5x per week
Number of treatments	5 - 6
Intensity	0.8 - 1.5 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to the edema. The patient must not feel pain during application. (203)

9 BURSITIS ACUTA

Program	U-0006 bursitis acuta
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	1 - 3 minute, step 0.5 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm2
Effect	antiedematous, antiphlogistic
Note	Semistatic application. Apply to the edema. Pain must not worsen during application. For deeper located bursae. (204)

10 BURSITIS ACUTA - SUPERFICIAL

Program	U-0060 bursitis acuta - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	1 - 3 minutes, step 0.5 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm2
Effect	antiedematous, antiphlogistic
Note	Semistatic application. Apply to the edema. Pain must not worsen during application. For superficial bursae. (521)

11 BURSITIS CHRONICA

Program	U-0007 bursitis chronica
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 - 8 minutes, step 1 minute
Frequency of treatments	3x per week
Number of treatments	6
Intensity	1.0 W/cm2
Effect	antiedematous, antiphlogistic
Note	Semistatic application. If pain appears or worsens, reduce intensity. For deeper located bursae. (205)

12 BURSITIS CHRONICA - SUPERFICIAL

Program	U-0061 bursitis chronica - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 - 8 minutes, step 1 minute
Frequency of treatments	3x per week
Number of treatments	6
Intensity	1.0 W/cm2
Effect	antiedematous, antiphlogistic
Note	Semistatic application. If pain appears or worsens, reduce intensity. For superficial bursae. (522)

13 BURSITIS SUBACUTA

Program	U-0008 bursitis subacuta
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	3 - 6 minutes, step 1 minute
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm2
Effect	antiedematous, antiphlogistic
Note	Semistatic application. Apply to the edema. Pain must not worsen during application. (206)

14 CICATRIX ACUTA

Program	U-0009 cicatrix acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	4 minutes
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	2 - 5
Intensity	0.5 - 1.0 W/cm2, step 0.1 W/cm2
Effect	analgesic, hyperaemic
Note	Semistatic application. Follow the principles of asepsis. (207)

15 CICATRIX CHELOIDUM

Program	U-0010 cicatrix cheloidum
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	3 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	3 - 6 (or more in case of obvious effect)
Intensity	1.5 - 2.5 W/cm2, step 0.2 W/cm2
Effect	hyperaemic
Note	Semistatic application. It is suitable to support the therapy by manual modalities (pressure massage, fascial techniques, etc.). (208)

16 CICATRIX SUBACUTA

Program	U-0011 cicatrix subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	0.5 - 1.0 W/cm2, step 0.1 W/cm2
Effect	hyperaemic
Note	Semistatic application. Follow the principles of asepsis. (209)

17 CRAUROSIS VULVAE

Program	U-0049 craurosis vulvae
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	1 cm2
Length of application	10 minutes
Frequency of treatments	daily
Number of treatments	2 sets, 10 treatments each; interval between the sets 4 - 6 weeks
Intensity	0.4 - 0.8 W/cm2, step 0.2 W/cm2 beginning with the 2. treatment
Effect	analgesic, hyperaemic
Note	Dynamic application. Contact medium: 1% hydrocortizone ointment. (245)

18 DECUBITUS

Program	U-0012 decubitus
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	10 (or even more if needed)
Intensity	0.8 W/cm2
Effect	antiedematous, analgesic, hyperaemic
Note	Semistatic application. Apply only to the edges of the decubitus. If pain appears or worsens, reduce intensity. (210)

19 DISTENSIO MUSCULARIS ACUTA

Program	U-0062 distensio muscularis acuta
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	5x per week
Number of treatments	5 - 7
Intensity	0.8 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, hyperaemic, analgesic
Note	Semistatic application. For deeper located muscles. (523)

20 DISTENSIO MUSCULARIS ACUTA - SUPERFICIAL

Program	U-0013 distensio muscularis acuta - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	5x per week
Number of treatments	5 - 7
Intensity	0.8 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, hyperaemic, analgesic
Note	Semistatic application. For superficial muscles. (211)

21 DISTORSIO ACUTA

Program	U-0015 distorsio acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	3 - 5 minutes, step 1 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	0.8 W/cm2
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to the edema. (212)

22 DISTORSIO ACUTA - SUBAQUALIS

Program	U-0016 distorsio acuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 - 7 minutes, step 1 minute
Frequency of treatments	5x per week (daily)
Number of treatments	3
Intensity	2.0 W/cm2
Effect	antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the joint: 10 – 12 cm. Water temperature: 20 °C (213)

23 DISTORSIO CHRONICA

Program	U-0017 distorsio chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.0 - 1.5 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to chronic edema. (214)

24 DISTORSIO SUBACUTA

Program	U-0018 distorsio subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 - 8 minutes, step 1 minute
Frequency of treatments	3x per week
Number of treatments	3 - 5
Intensity	1.0 W/cm2
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to the edema. (215)

25 ENDOMETRIOSIS WITH ADHESIVE PROCESSES OF LESSER PELVIS

Program	U-0050 endometriosis with adhesive processes of lesser pelvis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm2 3. - 4. treatment: 0.6 W/cm2 5. - 15. treatment: 0.8 W/cm2
Effect	analgesic, antiedematous, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact media: gels - analgesics, antiphlogistics - such as diclofenac. Apply only in case of ovulation blockage or after operation. Apply only for endometriosis accompanied by adhesive processes of lesser pelvis (not for mere endometriosis). (246)

26 ENDOMETRITIS - POST-INFLAMMATORY CHANGES

Program	U-0056 endometritis - post-inflammatory changes
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 5. treatment: 10 minutes 6. treatment: 12 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm2 3. - 4. treatment: 0.8 W/cm2 5. - 15. treatment: 1.0 W/cm2
Effect	antiphlogistic, hyperaemic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (252)

27 ENDOMETRITIS - SUBACUTE

Program	U-0055 endometritis - subacute
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm2 3. - 4. treatment: 0.6 W/cm2 5. - 15. treatment: 0.8 W/cm2
Effect	antiphlogistic, analgesic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (251)

28 EPICONDYLITIS ACUTA

Program	U-0019 epicondylitis acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	3 - 5 minutes, step 0.5 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm2
Effect	myorelaxation, analgesic
Note	Semistatic application. Apply to the muscle group which is anchored to the affected epicondyle. Direct ultrasound application to the epicondyle is contraindicated. (216)

29 EPICONDYLITIS CHRONICA

Program	U-0020 epicondylitis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	5 minutes
Frequency of treatments	3x per week
Number of treatments	5 - 15
Intensity	1.0 - 2.0 W/cm2, step 0.2 W/cm2
Effect	myorelaxation, analgesic
Note	Semistatic application. The application must be supplemented by post-isometric relaxation of the corresponding muscular group. Apply to fibres with inner incoordination or to trigger points which have been diagnosed in advance. Direct ultrasound application to the epicondyle is contraindicated. (217)

30 EPICONDYLITIS SUBACUTA

Program	U-0021 epicondylitis subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	3 - 5 minutes, step 1 minute
Frequency of treatments	3 - 5x per week
Number of treatments	6
Intensity	1.5 W/cm2
Effect	myorelaxation, analgesic
Note	Semistatic application. Apply to fibres with inner incoordination or to trigger points which have been diagnosed in advance. Direct ultrasound application to the epicondyle is contraindicated. (218)

31 HAEMATOMA CHRONICA

Program	U-0022 haematoma chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3x per week
Number of treatments	3 - 6
Intensity	1.0 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Dynamic application. (219)

32 HAEMATOMA SUBACUTA

Program	U-0023 haematoma subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Dynamic application. (220)

33 HAEMATOMA SUBCHRONICA

Program	U-0024 haematoma subchronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Dynamic application. (221)

34 MYALGIA

Program	U-0025 myalgia
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm2, step 0.2 W/cm2
Effect	myorelaxation, hyperaemic, analgesic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For deeper located muscles. (222)

35 MYALGIA - SUPERFICIAL

Program	U-0063 myalgia - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm2, step 0.2 W/cm2
Effect	myorelaxation, hyperaemic, analgesic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For superficial muscles. (524)

36 MYOSPASM

Program	U-0027 myospasm
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm2, step 0.2 W/cm2
Effect	myorelaxation, hyperaemic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For deeper located muscles. (223)

37 MYOSPASM - SUPERFICIAL

Program	U-0064 myospasm - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm2, step 0.2 W/cm2
Effect	myorelaxation, hyperaemic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For superficial muscles. (525)

38 OEDEMA CHRONICA

Program	U-0028 oedema chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3x per week
Number of treatments	3 - 6
Intensity	1.0 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Dynamic application. (224)

39 OEDEMA SUBACUTA

Program	U-0029 oedema subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Dynamic application. (225)

40 OEDEMA SUBCHRONICA

Program	U-0030 oedema subchronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm2, step 0.1 W/cm2
Effect	antiedematous, analgesic
Note	Dynamic application. (226)

41 PARAMETRITIS - POST-INFLAMMATORY CHANGES

Program	U-0058 parametritis - post-inflammatory changes
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 5. treatment: 10 minutes 6. treatment: 12 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm2 3. - 4. treatment: 0.8 W/cm2 5. - 15. treatment: 1.0 W/cm2
Effect	antiphlogistic, hyperaemic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (254)

42 PARAMETRITIS - SUBACUTE

Program	U-0057 parametritis - subacute
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm2 3. - 4. treatment: 0.6 W/cm2 5. - 15. treatment: 0.8 W/cm2
Effect	antiphlogistic, analgesic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. For parametritis, laser therapy is more suitable. (253)

43 PELVALGIA, SACRALGIA (ADHESIVE PROCESSES OF LESSER PELVIS)

Program	U-0051 pelvalgia, sacralgia (adhesive processes of lesser pelvis)
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	10 - 15
Intensity	1. - 2. treatment: 0.4 W/cm2 3. - 4. treatment: 0.6 W/cm2 5. - 15. treatment: 0.8 W/cm2
Effect	analgesic, hyperaemic
Note	Dynamic application to the adnexal area and above the symphysis, every other treatment to the paravertebral area L2-L5 bilaterally. Contact media: gels - analgesics, antiphlogistics - such as diclofenac. (247)

44 POST-CHILDBIRTH SUTURE OF PERINEUM, INCISION

Program	U-0052 post-childbirth suture of perineum, incision
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 50 Hz
Head	1 cm2
Length of application	6 - 10 minutes
Frequency of treatments	1. day 2 treatments, then 1 treatment per day
Number of treatments	6 - 10
Intensity	1. - 3. treatment: 0.2 W/cm2 4. - 10. treatment: 0.4 W/cm2
Effect	hyperaemic, analgesic, resorptive
Note	Dynamic application. Contact medium: 1% hydrocortizone ointment or e.g. antibiotics. Follow the principles of asepsis. (248)

45 PRE ENDERMOLOGY, LIPID AGITATION

Program	U-0113 pre endermology, lipid agitation
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	10 min. (560)

46 PRE SURG. LIPID DISPER., ABDOMEN

Program	U-0100 pre surg. lipid disper., abdomen
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	5 min. (551)

47 PRE SURG. LIPID DISPER., LEFT BUTTOCK

Program	U-0104 pre surg. lipid disper., left buttock
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min. (576)

48 PRE SURG. LIPID DISPER., LEFT FLANK

Program	U-0102 pre surg. lipid disper., left flank
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min. (575)

49 PRE SURG. LIPID DISPER., LEFT INNER THIGH

Program	U-0108 pre surg. lipid disper., left inner thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	3 min. (578)

50 PRE SURG. LIPID DISPER., LEFT OUTER THIGH

Program	U-0106 pre surg. lipid disper., left outer thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	5 min. (577)

51 PRE SURG. LIPID DISPER., LEFT UPPER ARM

Program	U-0111 pre surg. lipid disper., left upper arm
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min. (579)

52 PRE SURG. LIPID DISPER., RIGHT BUTTOCK

Program	U-0103 pre surg. lipid disper., right buttock
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min. (553)

53 PRE SURG. LIPID DISPER., RIGHT FLANK

Program	U-0101 pre surg. lipid disper., right flank
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min. (552)

54 PRE SURG. LIPID DISPER., RIGHT INNER THIGH

Program	U-0107 pre surg. lipid disper., right inner thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	3 min. (555)

55 PRE SURG. LIPID DISPER., RIGHT OUTER THIGH

Program	U-0105 pre surg. lipid disper., right outer thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	5 min.
	(554)

56 PRE SURG. LIPID DISPER., RIGHT UPPER ARM

Program	U-0110 pre surg. lipid disper., right upper arm
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min.
	(557)

57 PRE SURG. LIPID DISPER., UNDER CHIN

Program	U-0109 pre surg. lipid disper., under chin
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm2
Length of application	4 min.
	(556)

58 PRURITUS VULVAE

Program	U-0053 pruritus vulvae
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	1 cm2
Length of application	10 minutes
Frequency of treatments	daily
Number of treatments	2 sets, 10 treatments each; interval between the sets 4 - 6 weeks
Intensity	0.4 - 0.8 W/cm2, step 0.2 W/cm2 beginning with the 2. treatment
Effect	hyperaemic, analgesic
Note	Dynamic application. Contact medium: 1% hydrocortizone ointment. Can be combined with laser therapy. (249)

59 SPONDYLARTHRITIS ANCYLOPOETICA - M.BECHTEREVI

Program	U-0031 spondylarthritis ancylopoetica - m.bechterevi
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	15 minutes
Frequency of treatments	3x per week
Number of treatments	9 - 12
Intensity	1.0 - 2.0 W/cm2, step 0.1 W/cm2
Effect	myorelaxation, analgesic
Note	Dynamic application. Apply to the paravertebral fornices of the spine area where pain or stiffness is maximum. Ultrasound application should be immediately followed by physiotherapy (physical exercise), otherwise the effect would only be temporary. For superficial muscles use the carrier frequency 3 MHz. Ultrasound application to the vertebral spines is contraindicated. (227)

60 SY. ALGODYSTROPHICUS - SY.SUDECK

Program	U-0032 sy. algodystrophicus - sy.sudeck
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	15 minutes
Frequency of treatments	5x per week for clinically manifested algodystrophy, up to 2x per week for incipient algodystrophy
Number of treatments	10
Intensity	1.0 W/cm2
Effect	myorelaxation, analgesic
Note	Dynamic application. For treatment of upper limb apply ultrasound homolaterally to C5-Th1 area (segmental application), for treatment of lower limb apply to the L2-L5 area. Direct (local) ultrasound application to the affected area is absolutely contraindicated. For segmental application it is necessary to avoid the vertebral spines. (228)

61 TENDINITIS ACUTA

Program	U-0033 tendinitis acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:16 (6.25%) modulation frequency: 50 Hz
Head	1 cm2
Length of application	3 minutes
Frequency of treatments	5x per week
Number of treatments	2 - 5
Intensity	1.0 - 2.0 W/cm2, step 0.2 W/cm2
Effect	antiphlogistic, analgesic
Note	Semistatic application. Immobilisation is an integral part of treatment. (229)

62 TENDINITIS ACUTA - SUBAQUALIS

Program	U-0034 tendinitis acuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	5x per week
Number of treatments	2 - 5
Intensity	1.0 - 2.0 W/cm2, step 0.2 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 18 - 25 °C Immobilisation is an integral part of treatment. (230)

63 TENDINITIS CHRONICA

Program	U-0035 tendinitis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	5 - 10
Intensity	1.0 - 1.5 W/cm2, step 0.1 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. An integral part of this therapy is physiotherapy (physical exercise). (231)

64 TENDINITIS SUBACUTA

Program	U-0036 tendinitis subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 2.0 W/cm2, step 0.2 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. (232)

65 TENDINITIS SUBACUTA - SUBAQUALIS

Program	U-0037 tendinitis subacuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.5 - 2.5 W/cm2, step 0.2 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. (233)

66 TENDOVAGINITIS ACUTA

Program	U-0038 tendovaginitis acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:16 (6.25%) modulation frequency: 50 Hz
Head	1 cm2
Length of application	2 minutes
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	2 - 5
Intensity	2.0 - 2.5 W/cm2, step 0.1 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. (234)

67 TENDOVAGINITIS ACUTA - SUBAQUALIS

Program	U-0039 tendovaginitis acuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	3 - 5
Intensity	1.5 - 2.5 W/cm2, step 0.2 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 18 - 25 °C (235)

68 TENDOVAGINITIS CHRONICA

Program	U-0040 tendovaginitis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	5 - 15
Intensity	1.5 - 2.5 W/cm2, step 0.2 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. Therapy must be followed by appropriate physiotherapy (physical exercise). (236)

69 TENDOVAGINITIS SUBACUTA

Program	U-0041 tendovaginitis subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.5 W/cm2, step 0.1 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. (237)

70 TENDOVAGINITIS SUBACUTA - SUBAQUALIS

Program	U-0042 tendovaginitis subacuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	2.0 - 2.5 W/cm2, step 0.1 W/cm2
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 18 - 25 °C (238)

71 TRIGGER POINTS - DEEP

Program	U-0043 trigger points - deep
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	2 - 3 minutes each trigger point
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	3 - 5
Intensity	2.0 - 3.0 W/cm2, step 0.2 W/cm2
Effect	myorelaxation, analgesic
Note	Semistatic application. Ultrasound application should be immediately followed by suitable myoskeletal technique (PIR or selfPIR). It is best to apply ultrasound to those trigger points which radiate typical pain when detected by palpation or by combined therapy. (239)

72 TRIGGER POINTS - SUPERFICIAL

Program	U-0044 trigger points - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	2 minutes each trigger point
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	3 - 5
Intensity	0.5 - 1.0 W/cm2, step 0.1 W/cm2
Effect	myorelaxation, analgesic
Note	Semistatic application. Trigger points are very painful points that are often located in the affected area, but can be also outside it. Ultrasound application should be immediately followed by suitable myoskeletal technique (PIR or selfPIR). (240)

73 TUBAL STERILITY

Program	U-0054 tubal sterility
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm2
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 6. treatment: 10 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm2 3. - 4. treatment: 0.8 W/cm2 5. - 15. treatment: 1.0 W/cm2
Effect	hyperaemic
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment or gels - analgesic, antiphlogistic - such as diclofenac. (250)

74 ULCUS CRURIS

Program	U-0045 ulcus cruris
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 or 4 cm2, by the size of the ulcer
Length of application	4 - 7 minutes, step 0.5 minute
Frequency of treatments	daily (5x per week)
Number of treatments	5 - 10
Intensity	0.8 W/cm2
Effect	hyperaemic, analgesic
Note	Dynamic application. Apply only to the edges of the ulcer. If pain worsens during application, reduce the dosage. (241)

75 ULTRASOUND PART OF COMBINED THERAPY 1

Program	U-1006 ultrasound part of combined therapy 1
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	1 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	0.4 W/cm2
Effect	myorelaxation
Note	Semistatic application. This is the ultrasound part of the therapy by 2 single BTL devices (electro, ultrasound) for current E-5814. (532)

76 ULTRASOUND PART OF COMBINED THERAPY 2

Program	U-1007 ultrasound part of combined therapy 2
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	1 - 2 min.
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	0.5 W/cm2
Effect	myorelaxation
Note	Semistatic application. This is the ultrasound part of the therapy by 2 single BTL devices (electro, ultrasound) for current E-5813. (533)

77 ULTRASOUND PART OF COMBINED THERAPY 3

Program	U-1008 ultrasound part of combined therapy 3
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm2
Length of application	1 - 2 min.
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	0.5 W/cm2
Effect	myorelaxation
Note	Semistatic application. This is the ultrasound part of the therapy by 2 single BTL devices (electro, ultrasound) for currents E-5814, E-2770. (534)

78 VASONEUROSIS UNIVERSALIS - M.RAYNAUD

Program	U-0046 vasoneurosis universalis - m.raynaud
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm2
Length of application	15 minutes
Frequency of treatments	first week 3x, then 2x per week
Number of treatments	5 - 15
Intensity	1.0 W/cm2
Effect	hyperaemic, analgesic
Note	Segmental application. For treatment of upper limbs apply homolaterally (or bilaterally) to the C5-Th1 area, for treatment of lower limbs apply to the L3-L5 area. (242)